```
                    GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on:          March 30, 2003, 02:55:22 ; Search time 45.6407 Seconds
                                             (without alignments)
                                             9333.196 Million cell updates/sec

Title:           US-09-768-781-2
Perfect score:   1389
Sequence:        1 atgaacacaaggaccaccaaca.........caaggcaaagtgttgtcctga 1389

Scoring table:   IDENTITY_NUC
                 Gapop 10.0 , Gapext 1.0

Searched:        441362 seqs, 15333838l residues

Total number of hits satisfying chosen parameters:          882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Issued_Patents_NA:*
                 1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
                 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
                 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
                 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
                 5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
                 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

         Pred. No. is the number of results predicted by chance to have a
         score greater than or equal to the score of the result being printed,
         and is derived by analysis of the total score distribution.
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SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	173	12.5	1588	3	US-09-058-489-45	Sequence 45, Appli
2	45.4	3.3	7218	1	US-08-232-463-14	Sequence 14, Appli
3	36	2.6	2700	3	US-08-815-809-4	Sequence 4, Appli
4	35.2	2.5	951	1	US-07-855-412B-2	Sequence 2, Appli
5	35.2	2.5	951	2	US-08-308-887A-2	Sequence 2, Appli
6	35.2	2.5	951	2	US-08-881-094-2	Sequence 2, Appli
7	35.2	2.5	10962	3	US-08-816-155B-6	Sequence 6, Appli
8	35.2	2.5	10962	3	US-09-079-587-6	Sequence 6, Appli
9	35.2	2.5	19877	3	US-08-816-155B-8	Sequence 8, Appli
10	35.2	2.5	19877	3	US-09-079-587-8	Sequence 8, Appli
11	34.8	2.5	17410	1	US-07-841-646-3	Sequence 3, Appli
12	34.8	2.5	17410	2	US-08-147-023-3	Sequence 3, Appli
13	34.8	2.5	17410	2	US-08-447-570-3	Sequence 3, Appli
14	34.8	2.5	17410	2	US-08-449-700-3	Sequence 3, Appli
15	34.8	2.5	17410	2	US-08-449-699A-3	Sequence 3, Appli
16	34.6	2.5	1466	2	US-08-538-960-1	Sequence 1, Appli
17	34.6	2.5	1466	2	US-08-538-960-14	Sequence 14, Appli
18	34.6	2.5	1466	4	US-08-659-254-1	Sequence 1, Appli
19	34.6	2.5	1466	4	US-08-659-254-14	Sequence 14, Appli
20	34.4	2.5	5267	3	US-08-976-255-2	Sequence 2, Appli
21	33.6	2.5	3471	2	US-08-715-568A-2	Sequence 2, Appli
22	33.6	2.4	246240	2	US-08-724-394A-20	Sequence 20, Appli
23	33.6	2.4	246240	2	US-08-724-394A-21	Sequence 21, Appli
24	33.6	2.4	246240	2	US-08-724-394A-22	Sequence 22, Appli
25	33.4	2.4	1503	4	US-09-463-702A-33	Sequence 33, Appli
26	33.4	2.4	3627	4	US-09-792-594-3	Sequence 3, Appli
27	33.4	2.4	3850	4	US-09-463-702A-1	Sequence 1, Appli
28	33.4	2.4	6000	3	US-09-006-636-9	Sequence 9, Appli
29	33.4	2.4	6000	4	US-09-006-632-9	Sequence 9, Appli
30	33.4	2.4	6000	4	US-09-325-274-9	Sequence 9, Appli
31	33	2.4	5173	3	US-08-801-308-2	Sequence 2, Appli
32	33	2.4	29604	3	US-08-781-891-207	Sequence 207, App
33	32.8	2.4	2277	1	US-08-676-967-5	Sequence 5, Appli
34	32.8	2.4	2277	2	US-08-676-974-5	Sequence 5, Appli
35	32.8	2.4	2391	4	US-09-098-487-5	Sequence 5, Appli
36	32.8	2.4	3418	4	US-08-737-109-32	Sequence 32, Appli
37	32.8	2.4	3678	4	US-09-590-101A-7	Sequence 7, Appli
38	32.8	2.4	3678	4	US-09-590-101A-9	Sequence 9, Appli
39	32.8	2.4	6765	2	US-08-677-010-2	Sequence 2, Appli
40	32.8	2.4	6765	4	US-08-790-519-2	Sequence 2, Appli
41	32.6	2.3	960	4	US-08-936-165A-46	Sequence 46, Appli
42	32.4	2.3	722	4	US-08-659-254-15	Sequence 15, Appli
43	32.4	2.3	1090	2	US-09-289-349-7	Sequence 7, Appli
44	32.4	2.3	1618	1	US-08-410-540-1	Sequence 1, Appli
45	32.4	2.3	1641	4	US-08-659-254-19	Sequence 19, Appli

ALIGNMENTS

```
RESULT 1
US-09-058-489-45

;  Sequence 45, Application US/09058489
;  Patent No. 6103886
;  GENERAL INFORMATION:
;  APPLICANT: Whitehead Institute for Biomedical Research
;  APPLICANT: Lahn, Bruce
;  APPLICANT: Page, David
;  TITLE OF INVENTION: Genes in the No. 6103886-Recombining Region of
;  TITLE OF INVENTION: the Y Chromosome
;  FILE REFERENCE: WHI97-08pA
;  CURRENT APPLICATION NUMBER: US/09/058,489
;  CURRENT FILING DATE: 1998-04-10
;  EARLIER APPLICATION NUMBER: 60/041,877
;  EARLIER FILING DATE: 1997-04-11
;  NUMBER OF SEQ ID NOS: 91
;  SOFTWARE: FastSEQ for Windows Version 3.0
;  SEQ ID NO 45
;  LENGTH: 1588
;  TYPE: DNA
;  ORGANISM: Human
;  FEATURE:
;  NAME/KEY: CDS
;  LOCATION: (664)...(1051)
US-09-058-489-45

Query Match            12.5%;      Score 173; DB 3; Length 1588;
Best Local Similarity  59.0%;      Pred. No. 6.8e-47;
Matches  371;   Conservative   0;   Mismatches 250;   Indels   8;   Gaps   4;

Qy     640  AGAGTTGTGCTAATGGTATTTTCCCGGTATCTGTCACCTATGGGGCCACCCTTGCAAT  699
                |||  | |||  ||| | || |||||| || |||||| ||||||||| |||| |||
Db     677  ATAGCATTGCTGATGACATATTCCCCTTATCAGTTGTGTA-GGTGCCATTCACTGCAAT  735

Qy     700  ATGTTGGCTATCCAGATCAAGTACGATGACTACAAGATTCGCCTTGGGCCACTAGAAGTC  759
                 ||| ||| |||  |||| |  ||| |||  ||||||||  || |||||||||||
Db     736  ATACTGGCCATCCGCACTGGCAACGACTTTGCTGCCGCCATTAAGCTACAGGTGATAAAATTG  795

Qy     760  CTCTGCATCACCATCGGCGGCGGAGATCACTTCCCGCGCTCCTGATTCTCGGTGCTC  819
                ||| || |||  ||||||  ||| || ||||  ||  ||| || ||| || |||
Db     796  ATCTATCTCATGATATGGCGTTGGTGATTATCTCACCTGTAGTGAGCTCTGGCATTC  855

Qy     820  TTCTCAGCCACTTTGAAATTGAAAGGCGTGCCCTTCCTAGTGCTCAACTTCCTGATCATC  879
                ||| ||| ||||| |||||| ||  ||||| ||  ||  |||||  |||  ||||||
Db     856  TTCCCTGCATCTCTGAAACAGGGAGGAGTTACACTTTTCTATTAATCATATATTTGTGTATTA  915

Qy     880  CTCTTTGAGCCCTGGATTAAGTTCTGGAGAAGTGGTGCCCAATAACATTGAG  939
                ||| |||  || ||| ||||| | ||||  || || |||  ||  |||||||
Db     916  TTGTTGACACCATGGCTGCGTGGAGTTTTTCGAAAAGTGAACTCATCTTCCTAGCAACA--CAA  973
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Qy   940 AAAAACTTCAGCCCGGTCGCCACTCTGCTGTGTCCTGATTTCAGTCACCACCATCCTCTATGCT 999
         ||| ||| ||| ||| |||| ||||| ||| |||||| ||| || | || | ||||||||
Db   974 AAATAATTTCCAGCATGCGGTAAGTATGGATGCTTATCTTAATCATGCTAGTATATGCT 1033

Qy 1000 GGCATCAACTTCTCTTGCCTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTC 1059
         ||||||||| ||| ||||| ||||| || | ||||| |||| | | |||
Db 1034 GCCATCAA-TTCTCCTGCTTGTCAGCAGTGAAACTGCAGCTGTCAAATGAGGA----ATT 1088

Qy 1060 GACAAAGGCGAGAACTGGGAGACATATGGGCCTGCACTATAGTGTGGTAGAGAAT 1119
         || |||| || |||| |||| |||| || || ||||||| | ||| | |||
Db 1089 GATAAGAGACACGAGGTGGGACATACAATCCTACACTACAGATTTCAGTTTTTAGAAAAT 1148

Qy 1120 GTGATCATGGTCTTGGGTTTTTAAGTGTTCTTTGGAGTGAAAGTGTTACTGAATTACTGTCAT 1179
         ||||| || | ||| || ||| |||| |||| ||||||| | | |||| ||||||
Db 1149 GTGATAATAATATTGATAATTAGTTTCTTTGGAGGGAACGTTTTACCGAAGTGTGTGAC 1208

Qy 1180 TCCTTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTTCCATTGGCTTCATGCTCCTT 1239
         || |||||| ||| ||| ||| || |||||||| |||||| | ||| | |||| |
Db 1209 TCAATAATTGCCGTGTAGTTCATCAAAACCTACATATTAGCCTTTGCTTTTGGCTTTCCGC 1268

Qy 1240 TCCTCCAGTACTTGCCATCCATTGCCGCTC 1268
         || | ||||| |||||| ||||| ||||
Db 1269 TTCTGTCAGTATTTGCAACCAAGGTGGTC 1297

RESULT 2
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
;　APPLICANT: DORNER, F.
;　APPLICANT: SCHEIFLINGER, F.
;　APPLICANT: FALKNER, F. G.
;　TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
;　NUMBER OF SEQUENCES: 52
;　CORRESPONDENCE ADDRESS:
;　ADDRESSEE: Foley & Lardner
;　STREET: 1800 Diagonal Road, Suite 500
;　CITY: Alexandria
;　STATE: VA
;　COUNTRY: USA
;　ZIP: 22313-0299
;　COMPUTER READABLE FORM:
;　MEDIUM TYPE: Floppy disk
;　COMPUTER: IBM PC compatible
;　OPERATING SYSTEM: PC-DOS/MS-DOS
;　SOFTWARE: PatentIn Release #1.0, Version #1.25
;　CURRENT APPLICATION DATA:
;　APPLICATION NUMBER: US/08/232,463
;　FILING DATE:
;　CLASSIFICATION: 435
;　PRIOR APPLICATION DATA:
;　APPLICATION NUMBER: US/07/935,313
;　FILING DATE:
;　APPLICATION NUMBER: EP 91 114 300.6
;　FILING DATE: 26-AUG-1991
;　ATTORNEY/AGENT INFORMATION:
;　NAME: BENT, Stephen A.
;　REGISTRATION NUMBER: 29,768
;　REFERENCE/DOCKET NUMBER: 30472/114 IMMU
;　TELECOMUNICATION INFORMATION:
;　TELEPHONE: (703)836-9300
;　TELEFAX: (703)683-4109
;　TELEX: 899149
;　INFORMATION FOR SEQ ID NO: 14:
;　SEQUENCE CHARACTERISTICS:
;　LENGTH: 7218 base pairs
;　TYPE: nucleic acid
;　STRANDEDNESS: single
;　TOPOLOGY: linear
;　IMMEDIATE SOURCE:
;　CLONE: pTZgpt-F1s
US-08-232-463-14

Query Match　　　　3.3%;　Score 45.4;　DB 1;　Length 7218;
Best Local Similarity　5.8%;　Pred. No. 0.00046;
Matches　13;　Conservative 132;　Mismatches 78;　Indels　0;　Gaps　0;

Qy 1105 AGGTTGGTAGAGAATGTGATCATGGTCTTGGTTTTAAGTCTTTGGAGTGAAAGTGTTA 1164
         | || ||||||||||| |||| || ||| |||| | |||||||YYYYYYYYYYY
Db 1047 AGGTCGAGGGGAGCTTGGCGATYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1106

Qy 1165 CTGAATTACTGTCATTCCTGATTGCCTTGCAGTCATTATTGCTTATCTGATTTCCATT 1224
         :: :: :::::::::::YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
Db 1107 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1166

Qy 1225 GGCTTCATGCTCCTTTCTTCTTCCAGTACTTGCCATCCATTGCGCTCACTCTTCACCCATAAT 1284
         ||| ||||| ||||| ::YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
Db 1167 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1226

Qy 1285 GTAGTAGACTACCTCCATTGTGTCTGCGTGTCACCAGCACCCTC 1327
         ::YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY
Db 1227 YYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYYY 1269

RESULT 3
US-08-815-809-4
; Sequence 4, Application US/08815809
; Patent No. 6004777
; GENERAL INFORMATION:
;　APPLICANT: TARTAGLIA, James
;　APPLICANT: GOEBEL, Scott J.
;　APPLICANT: COX, William I.
;　APPLICANT: GETTIG, Russell R.
;　APPLICANT: PINCUS, Steven E.
;　APPLICANT: PAOLETTI, Enzo
;　APPLICANT: JACOBS, Bertram L.
;　TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND METHODS OF
;　TITLE OF INVENTION: MAKING AND USES THEREOF
;　FILE REFERENCE: 454310-3010
;　CURRENT APPLICATION NUMBER: US/08/815,809
;　CURRENT FILING DATE: 1997-03-12
;　NUMBER OF SEQ ID NOS: 23
;　SOFTWARE: PatentIn Ver. 2.0
;　SEQ ID NO 4
;　LENGTH: 2700
;　TYPE: DNA
;　ORGANISM: Vaccinia virus
US-08-815-809-4

Query Match　　　　2.6%;　Score 36;　DB 3;　Length 2700;
Best Local Similarity　50.6%;　Pred. No. 0.3;
Matches　87;　Conservative　0;　Mismatches 85;　Indels　0;　Gaps　0;

Qy   356 TCTTGGGACCTGTATCAGATGTTGGAGGCCATGATTAAGTACCTCACACTGTGGAAGA 415
         || ||| || ||||||||||| |||| | ||| || |||| | ||||| ||||||||
Db 1743 TCATGGAAATTCGGTTACTGATACAAAGCAGCTGTAGATCTTTCTCACTTTTTAAAAGA 1802

Qy   416 AAGAGGAGCAGGAGGAGCCCATATGTCAGCCTCACCCGAAAGAAGATGCTAATAGATGGCG 475
         || ||||| |||| || | || || | || || || |||| |||| |||||| |
Db 1803 AAAAGAGGTTTAGAAGGCTAATTCATTCTCAACGAAGACAAGATAATTCTTATGTTTCG 1862

Qy   476 AGGAGGTGCTGATAGAATGAGGAGGTGGGCCACTCCATCCGGACCCTGGCTAT 527
         | |||| | |||||| ||| || |||| | ||| | ||||| ||||||
Db 1863 TCGACATCTAGAAAGAGTGAAAAATTTTCTTTTCCTCCAAATCTTCCCGAT 1914

RESULT 4
US-07-855-412B-2/c
; Sequence 2, Application US/07855412B
; Patent No. 5378819
; GENERAL INFORMATION:
;　APPLICANT: Ryan,C.A.;McGurl,B.F.;Pearce,G.L.
;　TITLE OF INVENTION: "SYSTEMIN"
;　NUMBER OF SEQUENCES: 4
;　CORRESPONDENCE ADDRESS:

ADDRESSEE: Harness, Dickey & Pierce
STREET: P.O. Box 828
CITY: Troy
STATE: Michigan
COUNTRY: USA
ZIP: 48303
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette-5.25 inch, 1.2Mb storage
COMPUTER: IBM PC/386 Compatible
OPERATING SYSTEM: MS-DOS 4.01
SOFTWARE: Word for Windows-t
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/855,412B
FILING DATE: 03/19/92
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Smith, DeAnn F.
REGISTRATION NUMBER: 36,683
REFERENCE/DOCKET NUMBER: 755500002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810) 641-1600
TELEFAX: (810) 641-0270
TELEX: 287637 Harnes UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 951 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
DESCRIPTION: prosystemin cDNA; start ATG at #105
US-07-855-412B-2

Query Match   2.5%;   Score 35.2;   DB 1;   Length 951;
Best Local Similarity 55.8%;   Pred. No. 0.27;
Matches   67;   Conservative   0;   Mismatches   53;   Indels   0;   Gaps   0;

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Qy  1123 ATCATGGTCTTGGTTTTTAAGTTCTTGGAGTGAAAGTGTTACTGAATTACTGTCATTCC 1182
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Db   497 ATCATCTCCTTGTTGTTGATATCTTGGGATGGAGTCTCTTTTTCAACTATTTTCTCTT 438

Qy  1183 TTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTCCATTGGCTTCATGCTCCTTTTC 1242
         || ||| |||| || ||||   ||||  |  |||  | ||  ||||| |||||||||
Db   437 TTCATATTCTTCCTCCTCATACTCAACCTTTAGTTTTTCTTGTGCATCATCATCTCCTTC 378
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RESULT 5
US-08-308-887A-2/c
; Sequence 2, Application US/08308887A
; Patent No. 5883076
; GENERAL INFORMATION:
; APPLICANT: Ryan, C.A.
; APPLICANT: McGurl, B.F.
; APPLICANT: Pearce, G.L.
; TITLE OF INVENTION: "SYSTEMIN"
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Harness, Dickey & Pierce, P.L.C.
; STREET: P.O. Box 828
; CITY: Troy
; STATE: Michigan
; COUNTRY: USA
; ZIP: 48303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette-5.25 inch, 1.2Mb storage
; COMPUTER: IBM PC/386 Compatible
; OPERATING SYSTEM: MS-DOS 4.01
; SOFTWARE: Word for Windows-t
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/308,887A
; FILING DATE: September 19, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:

NAME: Smith, DeAnn F.
REGISTRATION NUMBER: 36,683
REFERENCE/DOCKET NUMBER: 755500001USA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (810) 641-1600
TELEFAX: (810) 641-0270
TELEX: 287637 Harnes UR
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 951 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
DESCRIPTION: prosystemin cDNA; start ATG at #105
US-08-308-887A-2

Query Match   2.5%;   Score 35.2;   DB 2;   Length 951;
Best Local Similarity 55.8%;   Pred. No. 0.27;
Matches   67;   Conservative   0;   Mismatches   53;   Indels   0;   Gaps   0;

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Qy  1123 ATCATGGTCTTGGTTTTTAAGTTCTTGGAGTGAAAGTGTTACTGAATTACTGTCATTCC 1182
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Db   497 ATCATCTCCTTGTTGTTGATATCTTGGGATGGAGTCTCTTTTTCAACTATTTTCTCTT 438

Qy  1183 TTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTCCATTGGCTTCATGCTCCTTTTC 1242
         || ||| |||| || ||||   ||||  |  |||  | ||  ||||| |||||||||
Db   437 TTCATATTCTTCCTCCTCATACTCAACCTTTAGTTTTTCTTGTGCATCATCATCTCCTTC 378
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RESULT 6
US-08-881-094-2/c
; Sequence 2, Application US/08881094A
; Patent No. 6022739
; GENERAL INFORMATION:
; APPLICANT: Ryan, Clarence A
; APPLICANT: Pearce, Gregory L
; APPLICANT: McGurl, Barry F
; TITLE OF INVENTION: Systemin
; FILE REFERENCE: 7555-000001CPB
; CURRENT APPLICATION NUMBER: US/08/881,094A
; CURRENT FILING DATE: 1997-07-09
; EARLIER APPLICATION NUMBER: 08/308,887
; EARLIER FILING DATE: 1994-09-19
; EARLIER APPLICATION NUMBER: PCT/US93/02428
; EARLIER FILING DATE: 1993-03-18
; EARLIER APPLICATION NUMBER: 07/885,412
; EARLIER FILING DATE: 1992-03-19
; EARLIER APPLICATION NUMBER: 07/528,956
; EARLIER FILING DATE: 1990-05-25
; EARLIER APPLICATION NUMBER: PCT/US91/03685
; EARLIER FILING DATE: 1991-05-24
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 951
; TYPE: DNA
; ORGANISM: Lycopersicon esculentum
US-08-881-094-2

Query Match   2.5%;   Score 35.2;   DB 3;   Length 951;
Best Local Similarity 55.8%;   Pred. No. 0.27;
Matches   67;   Conservative   0;   Mismatches   53;   Indels   0;   Gaps   0;

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Qy  1123 ATCATGGTCTTGGTTTTTAAGTTCTTGGAGTGAAAGTGTTACTGAATTACTGTCATTCC 1182
         ||||| || || ||||   ||  |  |||| ||  ||| |||| |||| ||| |
Db   497 ATCATCTCCTTGTTGTTGATATCTTGGGATGGAGTCTCTTTTTCAACTATTTTCTCTT 438

Qy  1183 TTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTCCATTGGCTTCATGCTCCTTTTC 1242
         || ||| |||| || ||||   ||||  |  |||  | ||  ||||| |||||||||
Db   437 TTCATATTCTTCCTCCTCATACTCAACCTTTAGTTTTTCTTGTGCATCATCATCTCCTTC 378
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RESULT 7
US-08-816-155B-6
; Sequence 6, Application US/08816155B
; Patent No. 5990091
; GENERAL INFORMATION:
;   APPLICANT: TARTAGLIA, JAMES
;   APPLICANT: COX, WILLIAM I.
;   APPLICANT: GETTIG, RUSSELL R.
;   APPLICANT: MARTINEZ, HECTOR
;   APPLICANT: PAOLETTI, ENZO
;   APPLICANT: PINCUS, STEVEN E.
;   TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND
;   TITLE OF INVENTION: METHODS OF MAKING AND USES THEREOF
;   NUMBER OF SEQUENCES: 48
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
;   STREET: 745 FIFTH AVENUE
;   CITY: NEW YORK
;   STATE: NEW YORK
;   COUNTRY: USA
;   ZIP: 10151
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/816,155B
;   FILING DATE: 12-MAR-1997
;   CLASSIFICATION: 514
;   ATTORNEY/AGENT INFORMATION:
;   NAME: KOWALSKI, THOMAS J.
;   REGISTRATION NUMBER: 32,147
;   REFERENCE/DOCKET NUMBER: 454310-2990
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 212-588-0800
;   TELEFAX: 212-588-0500
; INFORMATION FOR SEQ ID NO: 6:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 10962 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
US-08-816-155B-6

Query Match   2.5%;   Score 35.2;   DB 2;   Length 10962;
Best Local Similarity   54.7%;   Pred. No. 1.5;
Matches   70;   Conservative   0;   Mismatches 58;   Indels 0;   Gaps 0;

Qy   400 CTCACACTGTCGGAAGAAAGAGGAGGAGCCAGGAGAGCCCTATGTCAGCCTCACCCGAAAGAAG 459
          ||||| ||||| ||| | ||||| |||| ||| |||||| | |||| || |||| |||
Db   1912 CTCACTTTTTAAAAGAAAGGAGGTTTAGAGGGCTAATTCATTCTTCAACGAAGACAAG 1971

Qy   460 ATGCTAATAGATGGCGAGGAGGTGCTGATGAATGGAAGGGCTAATTCATTCTTCAACGAAGACAAG 519
          || ||| | || ||| || | |||| | || || |||||
Db   1972 ATATTCTTATGTTTCGTCGACATCTAGAAAGAGTGAAAAATTTTCTTTTTCCTCCAAATC 2031

Qy   520 CTGGCTAT 527
          |||||
Db   2032 TTCCCGAT 2039

RESULT 8
US-09-079-587-6
; Sequence 6, Application US/09079587
; Patent No. 6130066
; GENERAL INFORMATION:
;   APPLICANT: TARTAGLIA, JAMES
;   APPLICANT: COX, WILLIAM I.
;   APPLICANT: GETTIG, RUSSELL R.
;   APPLICANT: MARTINEZ, HECTOR
;   APPLICANT: PAOLETTI, ENZO
;   APPLICANT: PINCUS, STEVEN E.
;   TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND
;   TITLE OF INVENTION: METHODS OF MAKING AND USES THEREOF
;   NUMBER OF SEQUENCES: 48
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
;   STREET: 745 FIFTH AVENUE
;   CITY: NEW YORK
;   STATE: NEW YORK
;   COUNTRY: USA
;   ZIP: 10151
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE: Floppy disk
;   COMPUTER: IBM PC compatible
;   OPERATING SYSTEM: PC-DOS/MS-DOS
;   SOFTWARE: PatentIn Release #1.0, Version #1.30
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/09/079,587
;   FILING DATE:
;   CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US 08/816,155
;   FILING DATE: 12-MAR-1997
;   ATTORNEY/AGENT INFORMATION:
;   NAME: KOWALSKI, THOMAS J.
;   REGISTRATION NUMBER: 32,147
;   REFERENCE/DOCKET NUMBER: 454310-2990
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: 212-588-0800
;   TELEFAX: 212-588-0500
; INFORMATION FOR SEQ ID NO: 6:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 10962 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
US-09-079-587-6

Query Match   2.5%;   Score 35.2;   DB 3;   Length 10962;
Best Local Similarity   54.7%;   Pred. No. 1.5;
Matches   70;   Conservative   0;   Mismatches 58;   Indels 0;   Gaps 0;

Qy   400 CTCACACTGTCGGAAGAAAGAGGAGGAGCCAGGAGAGCCCTATGTCAGCCTCACCCGAAAGAAG 459
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Db   1912 CTCACTTTTTAAAAGAAAGGAGGTTTAGAGGGCTAATTCATTCTTCAACGAAGACAAG 1971

Qy   460 ATGCTAATAGATGGCGAGGAGGTGCTGATGAATGGAAGGGCTAATTCATTCTTCAACGAAGACAAG 519
          || ||| | || ||| || | |||| | || || |||||
Db   1972 ATATTCTTATGTTTCGTCGACATCTAGAAAGAGTGAAAAATTTTCTTTTTCCTCCAAATC 2031

Qy   520 CTGGCTAT 527
          |||||
Db   2032 TTCCCGAT 2039

RESULT 9
US-08-816-155B-8
; Sequence 8, Application US/08816155B
; Patent No. 5990091
; GENERAL INFORMATION:
;   APPLICANT: TARTAGLIA, JAMES
;   APPLICANT: COX, WILLIAM I.
;   APPLICANT: GETTIG, RUSSELL R.
;   APPLICANT: MARTINEZ, HECTOR
;   APPLICANT: PAOLETTI, ENZO
;   APPLICANT: PINCUS, STEVEN E.
;   TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND
;   TITLE OF INVENTION: METHODS OF MAKING AND USES THEREOF
;   NUMBER OF SEQUENCES: 48
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
;   STREET: 745 FIFTH AVENUE

; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10151
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,155B
; FILING DATE: 12-MAR-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: KOWALSKI, THOMAS J.
; REGISTRATION NUMBER: 32,147
; REFERENCE/DOCKET NUMBER: 454310-2990
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-588-0800
; TELEFAX: 212-588-0500
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19877 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-816-155B-8

Query Match   2.5%;   Score 35.2; DB 2; Length 19877;
Best Local Similarity   54.7%;   Pred. No. 2.3;
Matches   70; Conservative   0; Mismatches   58; Indels   0; Gaps   0;

Qy   400 CTCACACTGTGGAAGAAAGAGGAGCAGGAGCCCTATGTCAGCCTCACCCGAAAGAAG 459
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Db 10827 CTCACTTTTTAAAAGAAAAGAAGGAGGTTTAGAAGGGCTAATTCATTCTCAACGAAGACAAG 10886

Qy   460 ATGCTAATAGATGGCGAGGAGGTGCTGATAGAATGGGAGGTGGCCACTCCATCCGGACC 519
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Db 10887 ATATTCTTATGTTTCGTCGACATCTAGAAAGAGTGAAAAATTTTCTTTTTCCTCCAAATC 10946

Qy   520 CTGGCTAT 527
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Db 10947 TTCCCGAT 10954

RESULT 10
US-09-079-587-8
; Sequence 8, Application US/09079587
; Patent No. 6130066
; GENERAL INFORMATION:
; APPLICANT: TARTAGLIA, JAMES
; APPLICANT: COX, WILLIAM I.
; APPLICANT: GETTIG, RUSSELL R.
; APPLICANT: MARTINEZ, HECTOR
; APPLICANT: PAOLETTI, ENZO
; APPLICANT: PINCUS, STEVEN E.
; TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND
; TITLE OF INVENTION: METHODS OF MAKING AND USES THEREOF
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
; STREET: 745 FIFTH AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10151
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/079,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/816,155
; FILING DATE: 12-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: KOWALSKI, THOMAS J.
; REGISTRATION NUMBER: 32,147
; REFERNCE/DOCKET NUMBER: 454310-2990
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-588-0800
; TELEFAX: 212-588-0500
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19877 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-09-079-587-8

Query Match   2.5%;   Score 35.2; DB 3; Length 19877;
Best Local Similarity   54.7%;   Pred. No. 2.3;
Matches   70; Conservative   0; Mismatches   58; Indels   0; Gaps   0;

Qy   400 CTCACACTGTGGAAGAAAGAGGAGCAGGAGCCCTATGTCAGCCTCACCCGAAAGAAG 459
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Db 10827 CTCACTTTTTAAAAGAAAAGAAGGAGGTTTAGAAGGGCTAATTCATTCTCAACGAAGACAAG 10886

Qy   460 ATGCTAATAGATGGCGAGGAGGTGCTGATAGAATGGGAGGTGGCCACTCCATCCGGACC 519
           || || || || |||| |||||||||||| |||| ||
Db 10887 ATATTCTTATGTTTCGTCGACATCTAGAAAGAGTGAAAAATTTTCTTTTTCCTCCAAATC 10946

Qy   520 CTGGCTAT 527
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Db 10947 TTCCCGAT 10954

RESULT 11
US-07-841-646-3
; Sequence 3, Application US/07841646
; Patent No. 5266683
; GENERAL INFORMATION:
; APPLICANT: OPPERMANN, HERMANN
; APPLICANT: OZKAYNAK, ENGIN
; APPLICANT: KUBERASAMPATH, THANGAVEL
; APPLICANT: RUEGER, DAVID C.
; APPLICANT: PANG, ROY H.L.
; TITLE OF INVENTION: OSTEOGENIC DEVICES
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: TESTA, HURWITZ & THIBEAULT
; STREET: 53 STATE STREET
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: U.S.A.
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/841,646
; FILING DATE: 19920221
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 810,560
; FILING DATE: 20-DEC-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 827,052
; FILING DATE: 28-JAN-1992

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PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 660,162
  FILING DATE: 22-FEB-1991
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 621,988
  FILING DATE: 04-DEC-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 621,849
  FILING DATE: 04-DEC-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 616,374
  FILING DATE: 21-NOV-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 600,024
  FILING DATE: 18-OCT-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 599,543
  FILING DATE: 18-OCT-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 579,865
  FILING DATE: 07-SEP-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 569,920
  FILING DATE: 20-AUG-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 483,913
  FILING DATE: 22-FEB-1990
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 422,613
  FILING DATE: 17-OCT-1989
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 315,342
  FILING DATE: 23-FEB-1989
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 232,630
  FILING DATE: 15-AUG-1988
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: US 179,460
  FILING DATE: 08-APR-1988
ATTORNEY/AGENT INFORMATION:
  NAME: PITCHER, EDMUND R.
  REGISTRATION NUMBER: 27,829
  REFERENCE/DOCKET NUMBER: CRP-001CP6
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 617/248-7000
  TELEFAX: 617/248-7100
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
  LENGTH: 17410 base pairs
  TYPE: NUCLEIC ACID
  STRANDEDNESS: single
  TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
  ORGANISM: homo sapiens
FEATURE:
  NAME/KEY: exon
  LOCATION: 3192..3730
  OTHER INFORMATION:  /label= EXON-1
  OTHER INFORMATION:  /note= "START CODON BEGINS AT POSITION 3313"
FEATURE:
  NAME/KEY: misc_feature
  LOCATION: 10413..10414
  OTHER INFORMATION:  /label= GAP-1
  OTHER INFORMATION:  /note= "APPROXIMATELY      BASES ARE ESTIMATED TO
  OTHER INFORMATION:  BE MISSING BETWEEN POSITIONS 10413 AND 10414 IN
  OTHER INFORMATION:  THIS SEQUENCE."
FEATURE:
  NAME/KEY: exon
  LOCATION: 10696..10891
  OTHER INFORMATION:  /label= EXON-2
FEATURE:
  NAME/KEY: misc_feature
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  LOCATION: 10960..10961
  OTHER INFORMATION:  /label= GAP-2
  OTHER INFORMATION:  /note= "APPROXIMATELY      BASES ARE ESTIMATED TO
  OTHER INFORMATION:  BE MISSING BETWEEN POSITION 10960 AND 10961 IN
  OTHER INFORMATION:  THIS SEQUENCE."
FEATURE:
  NAME/KEY: exon
  LOCATION: 11059..11211
  OTHER INFORMATION:  /label= EXON-3
FEATURE:
  NAME/KEY: misc_feature
  LOCATION: 11351..11352
  OTHER INFORMATION:  /label= GAP-3
  OTHER INFORMATION:  /note= "APPROXIMATELY      BASES ARE ESTIMATED TO
  OTHER INFORMATION:  BE MISSING BETWEEN POSITIONS 11351 AND 11352 IN
  OTHER INFORMATION:  THIS SEQUENCE."
FEATURE:
  NAME/KEY: exon
  LOCATION: 11420..11617
  OTHER INFORMATION:  /label= EXON-4
FEATURE:
  NAME/KEY: misc_feature
  LOCATION: 11721..11722
  OTHER INFORMATION:  /label= GAP-4
  OTHER INFORMATION:  /note= "APPROXIMATELY      BASES ARE ESTIMATED TO
  OTHER INFORMATION:  BE MISSING BETWEEN POSITIONS 11721 AND 11722 IN
  OTHER INFORMATION:  THIS SEQUENCE."
FEATURE:
  NAME/KEY: exon
  LOCATION: 13354..13436
  OTHER INFORMATION:  /label= EXON-5
FEATURE:
  NAME/KEY: exon
  LOCATION: 15044..15160
  OTHER INFORMATION:  /label= EXON-6
FEATURE:
  NAME/KEY: exon
  LOCATION: 17245..17410
  OTHER INFORMATION:  /label= EXON-7
US-07-841-646-3

Query Match              2.5%;  Score 34.8;  DB 1;  Length 17410;
Best Local Similarity   53.7%;  Pred. No. 2.9;
Matches   72;  Conservative  0;  Mismatches  62;  Indels  0;  Gaps  0;

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Db   741 GCATGTCTCCTCCCTCGCCTGGCTTCGAATTGTTCCAGAGAGAGTGATAGACAAGATCTG 800

Qy  1176 TCATTCCTTGATTGCCTGCAGCTCATTATTGCTTATCTGATTTCCATTGGCTTCATGCT 1235
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Db   801 CCTCTCCCTCAGTCCCTGAATCTTATTTAAGGCTCTTGTCTTTGCTTCCTCCGGCTGGAGGCG 860

Qy  1236 CCTTTTCTTCCAGT 1249
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Db   861 GCTCTTGATGGAGT 874

RESULT 12
US-08-147-023-3
; Sequence 3, Application US/08147023
; Patent No. 5468845
GENERAL INFORMATION:
  APPLICANT: OPPERMANN, HERMANN
  APPLICANT: OZKAYNAK, ENGIN
  APPLICANT: KUBERASAMPATH, THANGAVEL
  APPLICANT: RUEGER, DAVID C.
  APPLICANT: PANG, ROY H.L.
  TITLE OF INVENTION: OSTEOGENIC DEVICES
  NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
  ADDRESSEE: TESTA, HURWITZ & THIBEAULT
  STREET: 53 STATE STREET
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                CITY: BOSTON
                STATE: MASSACHUSETTS
                COUNTRY: U.S.A.
                ZIP: 02109
        COMPUTER READABLE FORM:
                MEDIUM TYPE: Floppy disk
                COMPUTER: IBM PC compatible
                OPERATING SYSTEM: PC-DOS/MS-DOS
                SOFTWARE: PatentIn Release #1.0, Version #1.25
        CURRENT APPLICATION DATA:
                APPLICATION NUMBER: US/08/147,023
                FILING DATE: 21-FEB-1992
                CLASSIFICATION: 530
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 810,560
                FILING DATE: 20-DEC-1991
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 827,052
                FILING DATE: 28-JAN-1992
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 660,162
                FILING DATE: 22-FEB-1991
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 621,988
                FILING DATE: 04-DEC-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 621,849
                FILING DATE: 04-DEC-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 616,374
                FILING DATE: 21-NOV-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 600,024
                FILING DATE: 18-OCT-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 599,543
                FILING DATE: 18-OCT-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 579,865
                FILING DATE: 07-SEP-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 569,920
                FILING DATE: 20-AUG-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 483,913
                FILING DATE: 22-FEB-1990
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 422,613
                FILING DATE: 17-OCT-1989
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 315,342
                FILING DATE: 23-FEB-1989
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 232,630
                FILING DATE: 15-AUG-1988
        PRIOR APPLICATION DATA:
                APPLICATION NUMBER: US 179,460
                FILING DATE: 08-APR-1988
        ATTORNEY/AGENT INFORMATION:
                NAME: PITCHER, EDMUND R.
                REGISTRATION NUMBER: 27,829
                REFERENCE/DOCKET NUMBER: CRP-001CP6
        TELECOMMUNICATION INFORMATION:
                TELEPHONE: 617/248-7000
                TELEFAX: 617/248-7100
INFORMATION FOR SEQ ID NO: 3:
        SEQUENCE CHARACTERISTICS:
                LENGTH: 17410 base pairs
                TYPE: nucleic acid
                STRANDEDNESS: single
                TOPOLOGY: linear
        MOLECULE TYPE: DNA (genomic)
        ORIGINAL SOURCE:
                ORGANISM: homo sapiens
        FEATURE:
                NAME/KEY: exon
                LOCATION: 3192..3730
                OTHER INFORMATION: /label= EXON-1
                OTHER INFORMATION: /note= "START CODON BEGINS AT POSITION 3313"
        FEATURE:
                NAME/KEY: misc_feature
                LOCATION: 10413..10414
                OTHER INFORMATION: /label= GAP-1
                OTHER INFORMATION: /note= "APPROXIMATELY    BASES ARE ESTIMATED TO
                OTHER INFORMATION: BE MISSING BETWEEN POSITIONS 10413 AND 10414 IN
                OTHER INFORMATION: THIS SEQUENCE."
        FEATURE:
                NAME/KEY: exon
                LOCATION: 10696..10891
                OTHER INFORMATION: /label= EXON-2
        FEATURE:
                NAME/KEY: misc_feature
                LOCATION: 10960..10961
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                OTHER INFORMATION: /note= "APPROXIMATELY    BASES ARE ESTIMATED TO
                OTHER INFORMATION: BE MISSING BETWEEN POSITION 10960 AND 10961 IN
                OTHER INFORMATION: THIS SEQUENCE."
        FEATURE:
                NAME/KEY: exon
                LOCATION: 11059..11211
                OTHER INFORMATION: /label= EXON-3
        FEATURE:
                NAME/KEY: misc_feature
                LOCATION: 11351..11352
                OTHER INFORMATION: /label= GAP-3
                OTHER INFORMATION: /note= "APPROXIMATELY    BASES ARE ESTIMATED TO
                OTHER INFORMATION: BE MISSING BETWEEN POSITIONS 11351 AND 11352 IN
                OTHER INFORMATION: THIS SEQUENCE."
        FEATURE:
                NAME/KEY: exon
                LOCATION: 11420..11617
                OTHER INFORMATION: /label= EXON-4
        FEATURE:
                NAME/KEY: misc_feature
                LOCATION: 11721..11722
                OTHER INFORMATION: /label= GAP-4
                OTHER INFORMATION: /note= "APPROXIMATELY    BASES ARE ESTIMATED TO
                OTHER INFORMATION: BE MISSING BETWEEN POSITIONS 11721 AND 11722 IN
                OTHER INFORMATION: THIS SEQUENCE."
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                NAME/KEY: exon
                LOCATION: 13354..13436
                OTHER INFORMATION: /label= EXON-5
        FEATURE:
                NAME/KEY: exon
                LOCATION: 15044..15160
                OTHER INFORMATION: /label= EXON-6
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                NAME/KEY: exon
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                OTHER INFORMATION: /label= EXON-7
US-08-147-023-3

Query Match         2.5%;    Score 34.8; DB 1; Length 17410;
Best Local Similarity 53.7%;    Pred. No. 2.9;
Matches 72;    Conservative 0;    Mismatches 62;    Indels 0;    Gaps 0;

Qy  1116 GAATGTGATCATGGTCTTGGTTTTAAGTTCTTGGAGTGAAAGTGTTACTGAATTACTG 1175
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Qy  1176 TCATTCCTTGATTGCCTTGCAGCTCATTATTGCTTATCTGATTTCCATTGGCTTCATCGT 1235
              | |||| |||  |||  ||| ||| |||| ||   | | ||||| |  ||||||
Db   801 CCTCTCCTTCAGTCCCTGAATCTTATTTAAGGCTCTTGCTTTGCTTCCTGGCTGGGAGGCG 860

Qy  1236 CCTTTCTTCCAGT 1249
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Db   861 GCTCTTGATGGAGT 874

RESULT 13
US-08-447-570-3
; Sequence 3, Application US/08447570
; Patent No. 5714589
GENERAL INFORMATION:
    APPLICANT: OPPERMANN, HERMANN
    APPLICANT: OZKAYNAK, ENGIN
    APPLICANT: KUBERASAMPATH, THANGAVEL
    APPLICANT: RUEGER, DAVID C.
    APPLICANT: PANG, ROY H.L.
    TITLE OF INVENTION: OSTEOGENIC DEVICES
    NUMBER OF SEQUENCES: 33
    CORRESPONDENCE ADDRESS:
    ADDRESSEE: TESTA, HURWITZ & THIBEAULT
    STREET: 53 STATE STREET
    CITY: BOSTON
    STATE: MASSACHUSETTS
    COUNTRY: U.S.A.
    ZIP: 02109
    COMPUTER READABLE FORM:
    MEDIUM TYPE: Floppy disk
    COMPUTER: IBM PC compatible
    OPERATING SYSTEM: PC-DOS/MS-DOS
    SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
    APPLICATION NUMBER: US/08/447,570
    FILING DATE: 21-FEB-1992
    CLASSIFICATION: 536
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 810,560
    FILING DATE: 20-DEC-1991
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 827,052
    FILING DATE: 28-JAN-1992
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 660,162
    FILING DATE: 22-FEB-1991
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 621,988
    FILING DATE: 04-DEC-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 621,849
    FILING DATE: 04-DEC-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 616,374
    FILING DATE: 21-NOV-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 600,024
    FILING DATE: 18-OCT-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 599,543
    FILING DATE: 18-OCT-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 579,865
    FILING DATE: 07-SEP-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 569,920
    FILING DATE: 20-AUG-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 483,913
    FILING DATE: 22-FEB-1990
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 422,613
    FILING DATE: 17-OCT-1989
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 315,342
    FILING DATE: 23-FEB-1989
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 232,630
    FILING DATE: 15-AUG-1988
    PRIOR APPLICATION DATA:
    APPLICATION NUMBER: US 179,460
    FILING DATE: 08-APR-1988
    ATTORNEY/AGENT INFORMATION:
    NAME: PITCHER, EDMUND R.
    REGISTRATION NUMBER: 27,829
    REFERENCE/DOCKET NUMBER: CRP-001CP6
    TELECOMMUNICATION INFORMATION:
    TELEPHONE: 617/248-7000
    TELEFAX: 617/248-7100
INFORMATION FOR SEQ ID NO: 3:
    SEQUENCE CHARACTERISTICS:
    LENGTH: 17410 base pairs
    TYPE: nucleic acid
    STRANDEDNESS: single
    TOPOLOGY: linear
    MOLECULE TYPE: DNA (genomic)
    ORIGINAL SOURCE:
    ORGANISM: homo sapiens
    FEATURE:
    NAME/KEY: exon
    LOCATION: 3192..3730
    OTHER INFORMATION: /label= EXON-1
    OTHER INFORMATION: /note= "START CODON BEGINS AT POSITION 3313"
    FEATURE:
    NAME/KEY: misc_feature
    LOCATION: 10413..10414
    OTHER INFORMATION: /label= GAP-1
    OTHER INFORMATION: /note= "APPROXIMATELY   BASES ARE ESTIMATED TO
    OTHER INFORMATION: BE MISSING BETWEEN POSITIONS 10413 AND 10414 IN
    OTHER INFORMATION: THIS SEQUENCE."
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    NAME/KEY: exon
    LOCATION: 10696..10891
    OTHER INFORMATION: /label= EXON-2
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    OTHER INFORMATION: THIS SEQUENCE."
    FEATURE:
    NAME/KEY: exon
    LOCATION: 11059..11211
    OTHER INFORMATION: /label= EXON-3
    FEATURE:
    NAME/KEY: misc_feature
    LOCATION: 11351..11352
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    NAME/KEY: exon
    LOCATION: 11420..11617
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    FEATURE:
    NAME/KEY: exon
    LOCATION: 13354..13436
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;      NAME/KEY:  exon
;      LOCATION:  17245..17410
;      OTHER INFORMATION:  /label= EXON-7
US-08-447-570-3

Query Match         2.5%;   Score 34.8;  DB 1;  Length 17410;
Best Local Similarity   53.7%;  Pred. No. 2.9;
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Qy  1236 CCTTTTCTTCCAGT 1249
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RESULT 14
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;  Sequence 3, Application US/08449700
;  Patent No. 5863758
;  GENERAL INFORMATION:
;      APPLICANT:  OPPERMANN, HERMANN
;      APPLICANT:  OZKAYNAK, ENGIN
;      APPLICANT:  KUBERASAMPATH, THANGAVEL
;      APPLICANT:  RUEGER, DAVID C.
;      APPLICANT:  PANG, ROY H.L.
;      TITLE OF INVENTION:  OSTEOGENIC DEVICES
;      NUMBER OF SEQUENCES:  33
;      CORRESPONDENCE ADDRESS:
;          ADDRESSEE:  TESTA, HURWITZ & THIBEAULT
;          STREET:  53 STATE STREET
;          CITY:  BOSTON
;          STATE:  MASSACHUSETTS
;          COUNTRY:  U.S.A.
;          ZIP:  02109
;      COMPUTER READABLE FORM:
;          MEDIUM TYPE:  Floppy disk
;          COMPUTER:  IBM PC compatible
;          OPERATING SYSTEM:  PC-DOS/MS-DOS
;          SOFTWARE:  PatentIn Release #1.0,  Version #1.25
;      CURRENT APPLICATION DATA:
;          APPLICATION NUMBER:  US/08/449,700
;          FILING DATE:  21-FEB-1992
;          CLASSIFICATION:  530
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 810,560
;          FILING DATE:  20-DEC-1991
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 827,052
;          FILING DATE:  28-JAN-1992
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 660,162
;          FILING DATE:  22-FEB-1991
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 621,988
;          FILING DATE:  04-DEC-1990
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 621,849
;          FILING DATE:  04-DEC-1990
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 616,374
;          FILING DATE:  21-NOV-1990
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 600,024
;          FILING DATE:  18-OCT-1990
;      PRIOR APPLICATION DATA:
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;          APPLICATION NUMBER:  US 599,543
;          FILING DATE:  18-OCT-1990
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 579,865
;          FILING DATE:  07-SEP-1990
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 569,920
;          FILING DATE:  20-AUG-1990
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 483,913
;          FILING DATE:  22-FEB-1990
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 422,613
;          FILING DATE:  17-OCT-1989
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 315,342
;          FILING DATE:  23-FEB-1989
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 232,630
;          FILING DATE:  15-AUG-1988
;      PRIOR APPLICATION DATA:
;          APPLICATION NUMBER:  US 179,460
;          FILING DATE:  08-APR-1988
;      ATTORNEY/AGENT INFORMATION:
;          NAME:  PITCHER, EDMUND R.
;          REGISTRATION NUMBER:  27,829
;          REFERENCE/DOCKET NUMBER:  CRP-001CP6
;      TELECOMMUNICATION INFORMATION:
;          TELEPHONE:  617/248-7000
;          TELEFAX:  617/248-7100
;  INFORMATION FOR SEQ ID NO:  3:
;      SEQUENCE CHARACTERISTICS:
;          LENGTH:  17410 base pairs
;          TYPE:  nucleic acid
;          STRANDEDNESS:  single
;          TOPOLOGY:  linear
;      MOLECULE TYPE:  DNA (genomic)
;      ORIGINAL SOURCE:
;          ORGANISM:  homo sapiens
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;          OTHER INFORMATION:  /label= EXON-1
;      FEATURE:
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;          LOCATION:  10413..10414
;          OTHER INFORMATION:  /label= GAP-1
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;          OTHER INFORMATION:  /label= EXON-2
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;      FEATURE:
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;          LOCATION:  11059..11211
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;          LOCATION:  11351..11352
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;          OTHER INFORMATION:  BE MISSING BETWEEN POSITIONS 11351 AND 11352 IN
;          OTHER INFORMATION:  THIS SEQUENCE."
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Note beside GAP-1: "START CODON BEGINS AT POSITION 3313"

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ATTORNEY/AGENT INFORMATION:
    NAME: PITCHER, EDMUND R.
    REGISTRATION NUMBER: 27,829
    REFERENCE/DOCKET NUMBER: STK-001CP6CN
    TELECOMMUNICATION INFORMATION:
    TELEPHONE: 617/248-7000
    TELEFAX: 617/248-7100
INFORMATION FOR SEQ ID NO:  3:
    SEQUENCE CHARACTERISTICS:
        LENGTH: 17410 base pairs
        TYPE: nucleic acid
        STRANDEDNESS: single
        TOPOLOGY: linear
    MOLECULE TYPE: DNA (genomic)
    ORIGINAL SOURCE:
        ORGANISM: homo sapiens
    FEATURE:
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        OTHER INFORMATION:  THIS SEQUENCE."
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        OTHER INFORMATION:  /note= "APPROXIMATELY     BASES ARE ESTIMATED TO
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        NAME/KEY: exon
        LOCATION: 13354..13436
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        LOCATION: 15044..15160
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        NAME/KEY: exon
        LOCATION: 17245..17410
        OTHER INFORMATION:  /label= EXON-7
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        NAME/KEY: exon
        LOCATION: 11420..11617
        OTHER INFORMATION:  /label= EXON-4
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        OTHER INFORMATION:  /note= "APPROXIMATELY     BASES ARE ESTIMATED TO
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        OTHER INFORMATION:  THIS SEQUENCE."
    FEATURE:
        NAME/KEY: exon
        LOCATION: 13354..13436
        OTHER INFORMATION:  /label= EXON-5
    FEATURE:
        NAME/KEY: exon
        LOCATION: 15044..15160
        OTHER INFORMATION:  /label= EXON-6
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        NAME/KEY: exon
        LOCATION: 17245..17410
        OTHER INFORMATION:  /label= EXON-7
US-08-449-700-3

Query Match         2.5%;   Score 34.8;   DB 2;   Length 17410;
Best Local Similarity  53.7%;   Pred. No. 2.9;
Matches  72;  Conservative   0;  Mismatches  62;  Indels   0;  Gaps    0;

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RESULT 15
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; Sequence 3, Application US/08449699A
; Patent No. 5958441
; GENERAL INFORMATION:
;   APPLICANT: OPPERMANN, HERMANN
;   APPLICANT: OZKAYNAK, ENGIN
;   APPLICANT: KUBERASAMPATH, THANGAVEL
;   APPLICANT: RUEGER, DAVID C.
;   APPLICANT: PANG, ROY H.L.
;   TITLE OF INVENTION: ANTIBODIES TO OSTEOGENIC PROTEINS
;   NUMBER OF SEQUENCES: 33
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE: TESTA, HURWITZ & THIBEAULT
;     STREET: 125 HIGH STREET
;     CITY: BOSTON
;     STATE: MASSACHUSETTS
;     COUNTRY: U.S.A.
;     ZIP: 02110
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE: Floppy disk
;     COMPUTER: IBM PC compatible
;     OPERATING SYSTEM: PC-DOS/MS-DOS
;     SOFTWARE: PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER: US/08/449,699A
;     FILING DATE: 24-MAY-1995
;     CLASSIFICATION: 424
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER: US 08/147,023
;     FILING DATE: 01-NOV-1993
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Query Match        2.5%;  Score 34.8;  DB 2;  Length 17410;
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Matches  72;  Conservative  0;  Mismatches  62;  Indels  0;  Gaps  0;

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